CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

05th May 2014

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS BANGALORE

AE W-3

CIVILTECH LABS

TEST REPORT ON CEMENT

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Agency Name	Sri. Thirunagendra

Tests on Cement	Test Date	Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112 1989	Remarks
			IS Code	Method	Value	Unit		
	04/05/2014	Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
		Final Setting Time	IS-4031 (Part-5) 1988	VICAT	483	min	Not More Than 600 Minutes	Satisfies Requirement
		Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT ON FINE AGGREGATES Ref:IS-383/2386

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at COAL layout and Attur layout in Attur, ward no. 03.
Agency Name	Sri. Thirunagendra

Sample	Date of Testing	Specific Gravity	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970				Grading Zone
					ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
Fine Aggregates	04/05/2014	2.56	10	100	100	100	100	100	II
			4.75	98	90-100	90-100	90-100	95-100	
			2.36	87	60-95	75-100	85-100	95-100	
			1.18	74	30-70	55-90	75-100	90-100	
			0.6	48	15-34	35-59	60-79	80-100	
			0.3	27	5-20	8-30	12-40	15-50	
			0.15	9	0-10	0-10	0-10	0-15	

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TEST REPORT ON COARSE AGGREGATES 40mm ↓ Graded Ref IS:383/2386

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Agency Name	Sri. Thimmagendra

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
40mm Down Graded	04/05/2014	2.67	0.28	80	100	100	Satisfies The Requirements
				40	99	95-100	
				20	54	30-70	
				10	25	10-35	
				4.75	3	0-5	

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TEST REPORT ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at COAL layout and Attur layout in Attur, ward no. 03.
Agency Name	Sri. Thirunagendra

Sample	Date of Testing	Specific Gravity	Absorption In %	IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
20mm Down Graded	04/05/2014	2.62	0.31	40	100	100	Satisfies The Requirement
				20	98	95-100	
				10	46	25-55	
				4.75	8	0-10	

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TEST REPORT ON REINFORCEMENT STEEL BARS 12mm

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Agency Name	Sri. Thirunagendra
Date of Test	04/05/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	421	415	Satisfactory
6	U T S (N/Sq.mm)	526	485	Satisfactory

Note:

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TEST REPORT ON REINFORCEMENT STEEL BARS 16mm

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Name of the Agency	Sri. Thirunagendra
Date of test	04/05/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.6	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

17th June 2014

Dear Sir,

Sub: Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS BANGALORE

AE W.3

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Project	Construction of main culverts at COA, Byrasandra and Attur layout in Attur, Ward no. 03.
Agency	Sri. Thirumagondu
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959(Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-Work	20/05/2014	17/06/2014	28	8.19	470	20.89	21.41
2					8.20	485	21.56	
3					8.21	490	21.78	

Note:

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Project	Construction of stone culverts at CQAL layout and Amar layout in Attur, ward no. 63
Agency	Sri. Thimmegowda
Grade of Concrete	M 20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional area	22500 Sq.mm
Technical Reference	IS 516: 1959 Reaffirmed 2004

Sl.No	Identification	Date of Casting	Date of Testing	Age in test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-work	19/05/2014	16/06/2014	28	8.15	475	21.11	21.40
2					8.20	485	21.56	
3					8.22	490	21.78	

Note

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

09th June 2014

Dear Sir,

Sub: Construction of main culverts at CQAL layout and Attur layout in Attur, ward no. 03.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS BANGALORE

AE 4.03

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Project	Construction of main culverts at COAL layout and Attur layout in Attur, ward no. 03.
Agency	Sri. Thirumgowda
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq mm
Technical Reference	IS:516-1959] Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age in Days	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-Work	10/06/2014	07/06/2014	28	8.16	349	15.47	15.79
2					8.17	356	15.82	
3					8.18	362	16.09	

AE L-3

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka Sub Division, UDMP
Project	Construction of RCC culverts at CQAL layout and Allur layout in Ward no. 03
Agency	Sri. Thimmegowda
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS:516-1959 Reaffirmed 2004]

Sl.No	Identification	Date of Casting	Date of Testing	Age of test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-work	09/05/2014	06/06/2014	28	8.18	348	15.47	15.64
2					8.17	352	15.64	
3					8.19	356	15.82	

AE 12-3

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka Sub Division, BBMP
Project	Construction of three culverts at CD&L layout and Attur layout in Attur, ward no. 07.
Agency	Sri. Thimmegowda
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959(Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-work	11/05/2014	08/06/2014	28	8.16	342	15.20	15.44
2					8.19	344	15.47	
3					8.21	352	15.64	

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